UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/712,381	11/13/2000	Thomas H. Kong	019680-000900US	9016

20350   7590   08/25/2003

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EXAMINER
TRAN, TAM D

ART UNIT	PAPER NUMBER
2676	1

DATE MAILED: 08/25/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

	Application No.	**Applicant(s)**	
Office Action Summary	09/712,381	KONG, THOMAS H.	
	Examiner	**Art Unit**	
	Tam D. Tran	2676	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>03</u> MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
  earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *13 November 2000* .

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-24* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-24* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11)☐ The proposed drawing correction filed on _____ is: a)☐ approved b)☐ disapproved by the Examiner.

    If approved, corrected drawings are required in reply to this Office action.

12)☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All b)☐ Some * c)☐ None of:

        1.☐ Certified copies of the priority documents have been received.

        2.☐ Certified copies of the priority documents have been received in Application No. _____ .

        3.☐ Copies of the certified copies of the priority documents have been received in this National Stage
application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

14)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

    a) ☐ The translation of the foreign language provisional application has been received.

15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)	4) ☐ Interview Summary (PTO-413) Paper No(s). _____ .
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) ☐ Notice of Informal Patent Application (PTO-152)
3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ .	6) ☐ Other:

DETAILED ACTION

Claim Rejections - 35 USC § 102

1.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-24 are rejected under 35 U.S.C. 102(e) as being anticipated by Deering (USPN

6525723 B1).

2.   In regard to claims 1, 7, 22, Deering teaches a method of generating pixels in a graphics

system comprising: providing a plurality of sub-samples; memory for storing sub-sample; see

col.4 lines 26-32; providing a source pixel; determining which of the plurality of sub-samples are

covered by the source pixel, and which of the plurality of sub-samples are not covered by the

source pixel; (see col.4 lines 30-37 and col.25 lines 3-15, showing the samples is close or far

from the center pixel corresponding to cover or not cover by the pixel); filtering the sub-samples

which are covered by the source pixel; blending the filtered sub-samples with the source pixel to

create a blended sub-sample; see col.2 lines 35-40; and filtering the sub-samples which are not

covered by the source pixel together with the blended sub-sample. (See col.5 lines 1-5, showing

the first and second set of store sample being filtered by the first and second filter respectively)

3.   In regard to claims 2, 3, 14, Deering teaches a method of generating pixels in a graphical

system, wherein the filtering the sub-samples which are covered and not covered by the source

pixel, filtering is done by averaging the sub-samples. See col.9 lines 5-10.

4.   In regard to claim 4, 5, 9, 23, Deering teaches a method of generating pixels in a

graphical system, having blending and filtering and the weighting is needed for blending sub-

sample. See col.9 lines 5-10.

5.   In regard to claim 6, Deering teaches a method of generating pixels in a graphical system,

further comprising replacing the sub-samples which are covered by the source pixel with the

blended sub-sample. See col.2 lines 35-40

6.   In regard to claim 8, Deering teaches a method of generating pixels in a graphical system,

wherein filter is refered to as averaging corresponding to first filter and second filter are

averaging circuits. See col.9 lines 5-10.

7.   In regard to claim 10, Deering teaches a method of generating pixels in a graphical

system, wherein the blender output provides a new sub-sample, and where the new sub-sample

replaces in memory the sub-samples covered by the image. See col.9 lines 1-3.

8.   In regard to claim 11, 17, Deering teaches an apparatus for generating pixels in a

graphical system, comprising: central processing unit; a sub-sample memory having an first

output and a second output; see col.4 lines 27- 35; a first filter having an input coupled to the

first sub-sample memory output; a blender having an output, a first input, and a second input, the

first input coupled to the first filter output; see col.2 lines 35-40; a graphics pipeline having an

output coupled to the second blender input; see col.8 lines 65-67; and a second filter having a

first input and a second input, the first input coupled to the second sub-sample memory output

and the second input coupled to the blender output. See col.5 lines 1-5.

9.   In regard to claims 12, 13, Deering teaches a method of generating pixels in a graphical

system, the sub-sample memory stores a plurality of sub-samples which are associated with a

pixel, and wherein the graphics pipeline provides a source pixel, and determines which of the

sub-samples associated with the pixel are covered by the source pixel, and which of the sub-

samples associated with the pixel are not covered by the source pixel, see col.4 lines 30-37.

10.   In regard to claim 15, Deering teaches a method of generating pixels in a graphical

system, wherein the second filter filters the sub samples at its first input and the blend at its

second input. See col.5 lines 1-5.

11.   In regard to claim 16, Deering teaches a method of generating pixels in a graphical

system, wherein the second filter further comprises an output for providing a pixel. See col.5

lines 1-5.

12.   In regard to claim 18, Deering teaches an apparatus for generating pixels in a graphics

system comprising: a memory for storing sets of a first number of sub-samples, where each set of

sub-samples is associated with a pixel; see col.4 lines 32-35; a second number of filters, each

filter coupled to the memory; and a third number of blenders, each coupled to one of the second

number of filters, wherein the third number is less than the first number. See col.25 lines 3-15.

13.   In regard to claim 19-21, Deering teaches a method of generating pixels in a graphical

system, wherein third number is one, and the first number is 4 and 8. See col.25 lines 3-10.

14.   In regard to claim 24, Deering teaches a method of generating pixels in a graphical

system, wherein the source pixels is received from a graphic pipeline. See col.32 lines 15-20.

Conclusion

15.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to **Tam D. Tran** whose telephone number is **703-305-4196**. The

examiner can normally be reached on MON-FRI from 8:30 – 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, **Matthew Bella** can be reached on **703-308-6829**.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

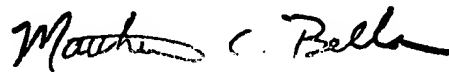**(703) 872-9314 (for Technology Center 2600 only)**

Hand-delivered response should be brought to Crystal Park II, 2121 Crystal Drive,

Arlington, VA, Sixth floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the Technology Center 2600 Customer Service Office whose

telephone number is (703) 306-0377.

Tam Tran

Examiner

Art unit 2676

MATTHEW C. BELLA
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600